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CLAIMS

1. A compound of Formula (1)

$$(X)_{m} CO_{2}M R^{2}$$

$$(Y)_{n} N N N Q$$

$$HO N_{R^{1}} O$$

Formula (1)

in which:

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 R^1 represents H, an optionally substituted C_{1-8} carbyl derived group, or a group of Formula A:

(CH₂)_cN'.R³
N N
R⁴ N R⁶

Formula A

where:

c is from 2 to 6;

R³ represents H or optionally substituted C₁₋₈carbyl derived group;

R⁴ and R⁵ independently represent an optional substituent;

R² represents an optionally substituted C₁₋₈carbyl derived group;

X, Y and Z independently represent H or an optional substituent group;

M represents H or a cation; and

m and n independently represent 0,1 or 2;

with the provisos that:

at least one of R^1 , R^2 , X, Y or Z comprises a group of Formula SO_3M or PO_3M_2 where M is independently as represented herein;

when n is 0; m is 1; X is a sulpho group para to the azo group; Z is H and R^2 is methyl then R^1 is other than ethyl

and the compound of Formula (1) is other than a compound of Formula II, III or IV as described herein.

- A compound according to claim 1 wherein R¹ is of Formula A.
- 30 3. A compound according to claim 1 or claim 2 of Formula (2):

$$MO_3S$$
 CO_2M
 CH_3
 CH_3

Formula (2)

in which:

Z is CONH₂, CN or H;

 R^1 is optionally substituted C_{2-8} alkyl or a glycol group; with the proviso that if the SO_3M group is in the 4-position of the benzene ring then either R^1 is other than ethyl or Z is other than H.

A composition comprising a solvent and at least one compound of Formula (1)

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Formula (1)

in which:

 R^1 represents H, an optionally substituted C_{1-8} carbyl derived group, or a group of Formula A:

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Formula A

where:

c is from 2 to 6;

R³ represents H or optionally substituted C₁₋₈carbyl derived group;

20 R⁴ and R⁵ independently represent an optional substituent;

R² represents an optionally substituted C₁₋₈carbyl derived group;

X, Y and Z independently represent H or an optional substituent group;

M represents H or a cation; and

m and n independently represent 0,1 or 2.

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5. A composition comprising a solvent and at least one compound according to any one of claims 1 to 3.

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- A composition according to claim 4 or 5 which is an ink comprising
 (a) from 0.01 to 30 parts of a compound of Formula (1) according to claim 1; and
 (b) from 70 to 99.99 parts of a liquid medium or a low melting point solid medium:
- wherein all parts are by weight and the number of parts of (a) + (b)=100.
- 7. A composition according to claim 4 or 5 wherein the solvent comprises water and one or more water soluble organic solvent(s).
- 8. A composition according to any one of claims 4 to 8 which comprises at least one further colorant.
 - 9. A composition according to claim 8, where the further colorant(s) is selected from at least one cyan, green, red, magenta and/or orange colorant which is a dye or a pigment.
 - 10. A composition according to claim 9, where the further colorant is a cyan dye of Formula (3)

 $CuPc \underbrace{\hspace{1cm} (SO_3M)_x}_{\hspace{1cm} (SO_2NH \hspace{1cm} V)_y}$

Formula (3)

20 in which:

T represents H or an optional substituent;

V represents CO₂M, SO₃M or PO₃M₂,

M represents H or a cation;

x and y independently represent from 0 to 4; and

x + y is from 3 to 5.

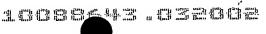
- 11. A composition according to either claim 8 or claim 9, where the further colorant is selected from C.I. Pigment Green 7 and C.I. Pigment Green 36.
- 12. A composition according to any of claims 4 to 11 which is a green, red or yellow ink suitable for use in any of the process claimed in claims 13 to 17.
 - 13. A process for preparing a patterned, cross-linked, polymer, film coating on a substrate comprising the steps of
- 35 (a) applying to the substrate simultaneously and/or sequentially in any order:

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- (i) one or more cross-linkable polymer precursor(s);
- (ii) optionally one or more additional cross-linker(s) capable of cross-linking the precursor(s) for the polymer(s); and
- (iii) one or more compound(s) of Formula (1) as described in claim 4 optionally with one or more other colorant(s);
- (b) optionally patterning one or more non cross-linked film(s) of component (i); component (iii) and/or mixture(s) thereof, optionally before application of further components; and
- (c) initiating cross-linking the mixture of components (i), (ii) in situ, to form an optionally patterned, cross-linked polymeric film coating on the substrate.
 - 14. A process according to claim 13, in which the process comprises a printing process.
- 15 15. A process according to claim 14, in which the printing process is an ink-jet printing process.
 - 16. A process according to claim 14, in which the printing process comprises a photolithographic process.
 - 17. A process according to claim 15, in which the polymer precursor(s) comprise water dissipatable polymer precursor(s).

8. A substrate obtainable by a process as claimed in any of claims 13 to 17.

- 19. A substrate according to claim 18, which comprises: a colour filter comprising a coloured, cross-linked, polymer coating on a transparent substrate; and/or a transparent, coloured, cross-linked, polymer coating on a substrate.
- 20. A substrate according to either claim 18 or 19, which has utility as a component for a coloured display.
- 21. A substrate according to any one of claims 18 to 20, which comprises an array of coloured trichromatic elements in which the trichromat is selected from: a red, green and blue trichromat; and a cyan magenta and yellow trichromat.
- 22. A display which comprises a substrate according to any one of claims 18 to 21.
- 23. A display according to claim 22, which comprises a liquid crystal display.

24. A process for printing a substrate with a composition according to any of claims 4 to 12 using an ink-jet printer.

- 25. A cartridge suitable for use in an ink jet printer containing an ink according to any one of claims 4 to 12.
- 26. A paper, overhead projector slide, textile or colour filter printed with a composition according to any one of claims 4 to 12.
- 27. A colour filter comprising red, green and blue filter elements, or yellow, magenta and cyan filter elements, characterised in that the filter carries a compound of Formula (1) as defined in claim 4.

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